

ABSTRACT

[Summary]

[Means for solution]

A process for treating ammonia containing wastewater
5 includes bringing an ammonia-treating material and ammonia
containing wastewater into contact with each other to remove
ammonia in the wastewater continuously as nitrogen gas,

the ammonia-treating material including a long carrier
and complex bacterial sludge attached and immobilized on the
10 biomass carrier, the carrier including a net, a nonwoven fabric
or a woven fabric of fibers or filaments, the carrier being
attached to a support, the complex bacterial sludge containing
bacterial sludge including autotrophic anammox bacteria and
bacterial sludge including autotrophic ammonia-oxidizing
15 bacteria,

the ammonia containing wastewater containing dissolved
oxygen at a concentration of not less than 0.5 mg/l.

[Effect]

The process for treating ammonia containing wastewater
20 uses the treating material in which the bacterial sludge are
attached and immobilized, and nitrification and anammox reaction
can take place efficiently and economically even when the
wastewater contains dissolved oxygen at a high concentration.